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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/608,151	06/30/2000	Shinichi Nakayama	520.38682X00	9853
20457 7	590 12/18/2002			
ANTONELLI TERRY STOUT AND KRAUS SUITE 1800 1300 NORTH SEVENTEENTH STREET			EXAMINER	
			ELAMIN, ABDELMONIEM I	
ARLINGTON	VA 22209		ART UNIT	PAPER NUMBER
			2182	
			DATE MAILED: 12/18/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

1

Office Action Summary

Application No. 09/608,151

Applicant(s)

Nakayame et al

Examiner

Abdelmoniem Elamin

Art Unit **2182**



	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address				
	for Reply					
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.					
- Extensi	tions of time may be available under the provisions of 37 CFR 1.136 (a).	In no event, however, may a reply be timely filed after SIX (6) MONTHS from the				
- If the p	g date of this communication. period for reply specified above is less than thirty (30) days, a reply within					
	period for reply is specified above, the maximum statutory period will appl to reply within the set or extended period for reply will, by statute, cause	ly and will expire SIX (6) MONTHS from the mailing date of this communication. e the application to become ABANDONED (35 U.S.C. § 133).				
- Any rej	ply received by the Office later than three months after the mailing date of patent term adjustment. See 37 CFR 1.704(b).					
Status						
1) 💢	Responsive to communication(s) filed on Jun 30, 20	000				
2a) 🗌	This action is FINAL . 2b) ✓ This action	ion is non-final.				
	Since this application is in condition for allowance e closed in accordance with the practice under Ex par	except for formal matters, prosecution as to the merits is reference Quayle, 1935 C.D. 11; 453 O.G. 213.				
	tion of Claims					
4) 🗶	Claim(s) <u>1-10</u>	is/are pending in the application.				
4	a) Of the above, claim(s)	is/are withdrawn from consideratio				
5) 💢	Claim(s) <u>7-9</u>	is/are allowed.				
6) 💢	Claim(s) 1-6 and 10	is/are rejected.				
7) 🗆	Claim(s)	is/are objected to.				
8) 🗆	Claims	are subject to restriction and/or election requirement				
Applica	tion Papers					
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/ar	e a \square accepted or b \square objected to by the Examiner.				
	Applicant may not request that any objection to the di	rawing(s) be held in abeyance. See 37 CFR 1.85(a).				
11)	The proposed drawing correction filed on	is: an approved by disapproved by the Examine				
	If approved, corrected drawings are required in reply t	o this Office action.				
12)□	The oath or declaration is objected to by the Exami	ner.				
Priority	under 35 U.S.C. §§ 119 and 120					
13)💢	Acknowledgement is made of a claim for foreign pr	fiority under 35 U.S.C. § 119(a)-(d) or (f).				
a) 🗶	All b) □ Some* c) □ None of:					
1	1. 💢 Certified copies of the priority documents have been received.					
2	2. \square Certified copies of the priority documents have	e been received in Application No				
	application from the International Burea					
	ee the attached detailed Office action for a list of the					
	Acknowledgement is made of a claim for domestic					
_	The translation of the foreign language provisiona					
	Acknowledgement is made of a claim for domestic	priority under 35 U.S.C. §§ 120 and/or 121.				
Attachme	ent(s) tice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).				
	tice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)				
	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Other:				
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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 2. Claims 1-6 and 10, are rejected under 35 U.S.C. 102(e) as being anticipated by Sanada et al, US. Pat. No. 6,484,245.
- 3. Claims 1, 2, 5 and 10, Sanada teaches a storage controller [storage controller 40 of Fig. 1, see title, abstract] for controlling transfer of input/output data to and from a lower level external apparatus [Disk array system 50 of Fig. 1] in response to input/output requests received from a

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higher level external apparatus [Host computers 10, 20 and 30 of Fig. 1], said storage controller

comprising;

at least one external interface controller for receiving said input/output requests from said

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higher level external apparatus in accordance with a type of interface with said higher level external

apparatus [Fig. 1];

at least one control processor which processes said input/output requests [Fiber channel

control unit 41 of Fig. 1, col. 5, lines 38-44]; and

a fibre channel interface loop interposed between said external interface controller and said

control processor so as to serve as a channel through which information is transferred therebetween

[Fiber channel fabric 60 of Fig. 1].

4. Claims 3-4, Sanada teaches said external interface controller is capable of interface conversion

between said fibre channel interface loop and an interface other than fibre channel [col. 1, lines 50-67,

col. 6, lines 14-31].

5. Claim 6, Sanada teaches frame reading means for reading a frame from any of said

input/output requests sent through said loop [Figs 2-5, 7 and 9].

Allowable Subject Matter

6. Claims 7-9 allowed.

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Conclusion

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdelmoniem I. Elamin whose telephone number is (703) 305-3804. The examiner can normally be reached Monday through Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin, can be reached at (703)308-3301.

Any inquiry of a general nature relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and trademarks

Washington, D.C. 20231

Or faxed to:

(703) 746-7239 (Official)

(703) 746-7240 (Non-Official/Draft)

(703) 746-7238 (After-final)

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA, Forth Floor (receptionist).

Respectively submitted

Abdelmoniem Elamin

December 11, 2002